

Relative intensities of...

S/056/62/043/005/024/058  
B102/B104

room temperature  $\nu_{1,2}$  was observed to be 58.156 Mc with an oscilloscope signal-to-noise ratio of  $\sim 3$ . At +18.60°C  $\nu_{2,3}$  was 112.596 Mc with a signal-to-noise ratio of 1.6. The ratio  $\nu_{1,2}/\nu_{2,3} = 1 : 0.54$ , which agrees well with the theoretical ratio. Because of its low intensity, the  $\nu_{1,3}$  transition cannot be observed in the 170 Mc spectrum. Therefore an indirect method was applied. The frequency of the transition was determined from the temperature dependence of the resonance signals measured. A 20-w generator for the 170 Mc band was constructed. When a saturating field of  $\approx 170.5$  Mc was applied, a reduction of the  $\nu_{1,2}$  intensity by a factor of 0.83 could be observed. In this case the "forbidden" transition is saturated and the difference in population between the levels 1 and 2 is reduced. There are 2 tables.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm' State University)

SUBMITTED: April 30, 1962

Card 2/2

L 17072-63

AFFTC/ASD

EWT(1)/EWP(q)/EWT(m)/BDS

JD

8/192/63/001/002/002/002

AUTHOR:

Grechishkin, V. S. and Kyuntsel', I. A.

58

TITLE:

Nuclear quadrupolar resonance of antimony isotopes in monocrystals  
of SbCl<sub>3</sub>, 2SbCl<sub>3</sub>·C<sub>6</sub>H<sub>6</sub>, and 2SbCl<sub>3</sub>·C<sub>7</sub>H<sub>8</sub>PERIODICAL: Zhurnal strukturnoy khimii, v. 4, no. 2, 1963, 269-271TEXT: Inasmuch as there are different spins for Sb<sup>121</sup> and Sb<sup>123</sup>, it was indicated that it should be possible to observe several transitions in the nuclear quadrupolar resonance of these isotopes and that it should also be possible to determine the parameter of asymmetry  $\eta$  from a measurement of the frequencies of these transitions. A study was therefore made of the nuclear quadrupolar resonance of the antimony isotopes in monocrystals of SbCl<sub>3</sub>, 2SbCl<sub>3</sub>·C<sub>6</sub>H<sub>6</sub>, and 2SbCl<sub>3</sub>·C<sub>7</sub>H<sub>8</sub>. In the latter two samples nuclear quadrupolar resonance was determined for the first time. There are 4 figures and 3 formulas.ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm State University)

SUBMITTED: May 19, 1962

Card 1/1

S/181/63/005/003/038/046  
B102/B180

AUTHORS: Grechishkin, V. S., and Kyuntsel', I. A.

TITLE: Temperature dependence of the nuclear quadrupole resonance frequency of  $Sb^{121}$  in some single crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 948-949

TEXT: To produce the quadrupole temperature standards needed for high-accuracy measurements ( $\pm 0.002^{\circ}\text{K}$ ) it is very important to find crystals with a high temperature coefficient of nuclear quadrupole resonance. The authors measured  $v(T)$  the temperature dependences of the  $Sb^{121}$  resonance frequencies, between 77 and  $340^{\circ}\text{K}$  for four monocrystalline samples:  $SbCl_3$  (1),  $2SbCl_3C_6H_6$  (2),  $SbCl_3C_6H_5C_2H_5$  (3) and  $2SbCl_3C_6H_5C_6H_5$  (4). All the crystals were grown by the Bridgman method. The results (Fig.) show that some of the  $SbCl_3$ -compounds have an abnormally high temperature coefficient, always higher than (1), except for (4) which undergoes a

Temperature dependence of the nuclear ...

S/181/63/005/003/038/046  
B102/B180

phase transition due to which the coefficient drops from 11 to 4.5 kcs/deg. The coefficient of (1) is 5 kcs/deg, of (2) 11 kcs/deg, and of (3) it is highest: 17 kcs/deg. With (4) piezoelectric resonances were also observed and a proton resonance was observed with all crystals. (3) holds out promise for the production of temperature standards. There is 1 figure.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm State University)

SUBMITTED: November 12, 1962

)

Card 2/3

Temperature dependence of the nuclear ...

S/181/63/005/003/030/046  
B102/B180

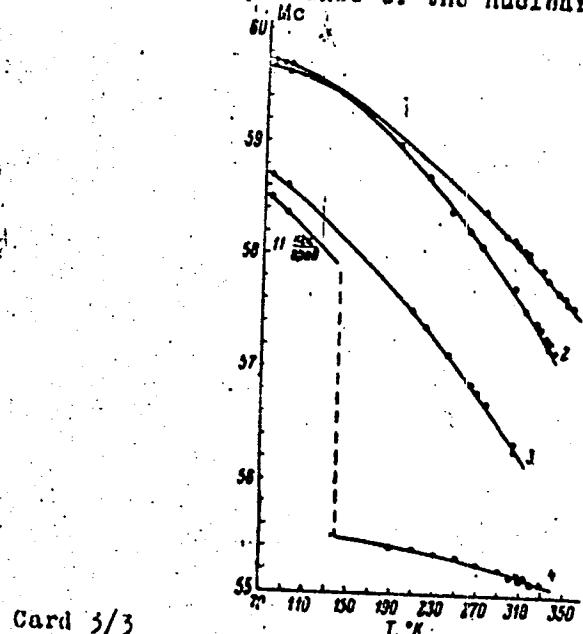


Fig.

ACCESSION NR: AP4009475

8/0051/63/015/006/0832/0833

AUTHOR: Grechishkin, V.S.; Kyuntsel', I.A.

TITLE: Frequencies of nuclear quadrupole resonance of Br<sup>79</sup> and Br<sup>81</sup> in Menshutkin complexes

SOURCE: Optika i spektroskopiya, v.15, no.6, 1963, 832-833

TOPCI TAGS: nuclear quadrupole resonance, NQR, bromine organic complexes, Br<sup>79</sup>, Br<sup>81</sup>, antimony bromide complex, benzene derivative, benzene complex

ABSTRACT: Complexes of antimony bromide (SbBr<sub>3</sub>) with derivatives of benzene and naphthalene, which were first described by B.N.Menshutkin in 1912, exhibit a number of interesting properties. At present there is enhanced interest in molecular complexes in connection with search for organic semiconductors. In the present study there was investigated nuclear quadrupole resonance of Br<sup>79</sup> and Br<sup>81</sup> in a number of molecular complexes with SbBr<sub>3</sub>. For the most part these were complexes with benzene and benzene derivatives. The nuclear quadrupole resonance was observed by means of a superregenerator with external damping (V.S.Grechishkin and G.B.Soyfer, PTE, No.1,87,1963). The spectra were displayed on an oscilloscope

Card 1/2

AP4009475

screen and the absorption frequencies were measured by a heterodyne wavemeter. The results obtained at room temperature are tabulated. For most of the complexes there are observed three NQR lines of Br<sup>79</sup> and Br<sup>81</sup>. The NQR frequency is proportional to the number of unpaired p electrons. Orig.art.has: 1 t. ble.

ASSOCIATION: none

SUBMITTED: 29Apr63

SUB CODE: PH,CH

DATE ACQ: 03Jan64

NR REF Sov: 004

ENCL: 00

OTHER: 001

Card 2/2

GRECHISHKIN, V.S.; KYUNSEL', I.A.; SOYFER, G.B.

Use of nuclear quadrupole resonance for physicochemical analysis.  
Zav.lab. 29 no.11:1310-1315 '63. (MIRA 16:12)

1. Permskiy gosudarstvennyy universitet.

ACCESSION NR: AP4019269

S/0192/64/005/001/0053/0058

AUTHORS: Grechishkin, V.S.; Kyuntsel', I.A.

TITLE: Nuclear quadrupole resonance in molecular compounds of antimony trichloride and tribromide

SOURCE: Zhurnal strudturnoy khimii, v.5, no.1, 1964, 53-58

TOPIC TAGS: nuclear quadrupole resonance, antimony trichloride, tribromide, crystal structure, chemical bond, Hammett constant, antimony

ABSTRACT: Nuclear quadrupole resonance is used as a mechanism for studying the distribution of a heterogeneous electrical field in molecular complexes, which might be useful as organic semiconductors. The quadrupole nuclei in this case fulfill the role of some experimental charges, and if there are several of these charges in the complex, there is a possibility of measuring the gradient of the electrical field at various points. Nuclear quadrupole resonance of  $\text{Cl}^{35}$ ,  $\text{Sb}^{121}$ ,  $\text{Sb}^{123}$  and  $\text{Br}^{79}$  in crystals of 27 molecular compounds of  $\text{SbCl}_3$  and

Card 1/3

ACCESSION NR: AP4019269

$SbBr_3$  are identified. The constants of the quadrupole reaction and asymmetry parameters are determined. The temperature dependence of frequencies  $Sb^{121}$  was studied. The rates of mean frequencies of rotary oscillations of molecules are derived. Observation of the quadrupole resonance itself in the complex indicates that it is free from heterogeneous crystals. Nuclear quadrupole resonance signals are not observed in the partial decomposition of the specimen. Data on nuclear quadrupole resonance indicates strong deformation of molecules of  $SbCl_3$  and  $Sb^{123}$ . The variation of constants of the quadrupole reaction can be combined for a series of complexes with the Hammett constant for corresponding substitutes. Complexing leads to a strong variation of the character of the network oscillations. In many cases it should be known which atoms are acceptors in the complex and which are the donors. In the complexes of B.N. Menshutkin (Dvycyny\*ye sistemy\* trekhhloristoy i trekhbromistoy sur'my\* s benzolom i yev, zamestitely nekotory\*ye reakstii benzola i yego zameshchenny\*kh proizvodny\*kh. SPb., 1912.) (O vliyanii zamestitely na or the bromine atom can also be an acceptor. The chlorine atom can be an acceptor if the corresponding hy-

Cord 2/3

ACCESSION NR: AP4019269

drocarbon is the donor of electrons. Thus, it is impossible to have a single schematic of forming Menshutkin complexes. "In conclusion the authors are grateful to student I.N. Shabanovoy for his help with some measurements." Orig. art. has: 3 tables, 2 figures, and 7 equations.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm' State University)

SUBMITTED: 29 Oct 62

DATE ACQ: 27 Mar 64

ENCL: 00

SUB CODE: OH

MR REF Sov: 009

OTHER: 003

Card 3/3

ACCESSION NR: AP4011502

S/0051/64/016/001/0161/0164

AUTHOR: Grechishkin, V.S.; Kyuntsel', I.A.

TITLE: Frequencies of quadrupole resonance in a number of molecular compounds of SbCl<sub>3</sub> and SbBr<sub>3</sub>

SOURCE: Optika i spektroskopiya, v.16, no.1, 1964, 161-164

TOPIC TAGS: nuclear quadrupole resonance, NQR, organic semiconductor, organic antimony chloride complex, organic antimony bromide complex, antimony chloride, antimony bromide, benzene, benzene derivative, naphthalene

ABSTRACT: Investigation of molecular complexes involving electron (charge) transfer is of interest from many standpoints, including the search for new organic semiconductors. The present work was concerned with investigation of nuclear quadrupole resonance (NQR) in a number of molecular complexes of SbCl<sub>3</sub> and SbBr<sub>3</sub> with benzene and its derivatives and with naphthalene. These compounds were investigated earlier by observation of their Raman spectra (P.V.Kurnosova and M.S.Ashkinazi, ZhSKh,11,844, 1938; Sh.Sh.Raskin, Opt.i.spektr.1,516,1956; Sh.Sh.Raskin, DAN SSSR,123,645,1958). However, observation of NQR allows of obtaining additional information, in particu-

Card 1/2

ACC.NR: AP4011502

lar, data on the number of nonequivalent atoms in the crystal lattice and on the degree of distortion of the  $SbCl_3$  and  $SbBr_3$  pyramids in the complex. The measurements were carried out by means of a frequency-modulated superregenerator; the spectrum was displayed on the screen of an oscilloscope and the absorption frequency was measured to within  $\pm 0.01\%$  by means of a heterodyne wavemeter. The temperature dependence of the frequency was determined by the usual procedure (V.S.Grechishkin and G.B.Soyfer, FTT, 4, 2268, 1962). The experimental results obtained at 770K are tabulated. The tabulated data show that in most complexes of 2:1 composition the NQR lines exhibit multiplet structure (in some cases four absorption lines were detected). The temperature dependences of the NQR frequency of  $Sb^{123}$  and some of the investigated complexes are given in a figure. A brief discussion and interpretation of the experimental results is given. Orig.art.has: 1 formula, 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 08May63

DATE ACQ: 14Feb64

ENCL: CO

SUB CODE: PH,CH

NR REF Sov: 012

OTHER: 008

2/2  
Cord

ACCESSION NR: AR5004854	7(1) Pi-4 iIP(a)	02/22 8/0058/64/000/011/E022/E022	
SOURCE: Ref. zh. Fizika, Abs. 11E160			
AUTHORS: Grechishkin, V. S., Kyuntsel', I. A.			
TITLE: Investigation of some molecular compounds by the nuclear quadrupole resonance method			
CITED SOURCE: Tr. Yestestv. nauchn. in-ta pri Permek. un-tu, v. 11, no. 2, 1964, 119-124			
TOPIC TAGS: nuclear quadrupole resonance, bromine bond, chlorine bond, hybridization, coupling constant			
TRANSLATION: A study was made of nuclear quadrupole resonance (NQR) in 30 molecular compounds of $SbCl_3$ of $Sb^{121}$ , $Sb^{123}$ , $Cl^{35}$ , and $Br^{81}$			
Card 1/2	2/2		
Card	2/2		

I-39385-65

ACCESSION NR: AR5004854

and  $SbBr_3$  with benzene and its substitute derivatives. The NMR signals were observed with a broadband NQR radiospectrometer. The observed change in the quadrupole-coupling constants of the Sb atoms is regarded from the point of view of the theory of donor-acceptor interaction. An estimate of the s-hybridization of the Sb-Cl and Sb-Br bonds is made for a series of complexes. In all complexes, an appreciable change was found in the asymmetry parameter  $\eta$ , possibly due to the distortion of the shape of the  $SbCl_3$  and  $SbBr_3$  pyramid. In several complexes, the temperature dependence of the NQR frequency was also investigated.

SUB CODE: GP, NP

ENCL: 00

Card

2/2/83

Kyupar, I. I.

KYUPAR, I. I.

Uchebnik serzhanta zenitnoi artillerii. v. 2. Moskva, Voen.  
izd-vo, 1949. 254 p., illus.  
Bibliography: p. 254.  
Title tr.: A textbook for the anti-aircraft gunnery sergeant.

UF625.M58

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955.

KYUN~~TSEL'~~, V.V.

Erosion of the banks of the Moskva River and its effect on land-slide processes. Razved.i okh.nedr 28 no.3:41-45 Mr '62.  
(MIRA 15:4)

1. Gidrorezhimnaya ekspeditsiya.  
(Moskva River—Erosion)

Kyupar, A.

GALANIN, N.; AGEYEV, P.; IOFFE, M.; KYUPAR, A.; RAMM, I.; SHAFIR, A.

Using sewage for field irrigation. Gig. i san. 22 no.9:73-74 S '57.  
(MIR 10:12)

1. Predsedatel' pravleniya Leningradskogo otdeleniya Vserossiyskogo obshchestva gigiyenistov (for Galanin). 2. Chleny pravleniya Leningradskogo otdeleniya Vserossiyskogo obshchestva gigiyenistov (for Ageyev, Ioffe, Kyupar, Ramm, Shafir)

(SEWAGE  
utilization for irrigation of fields)

(IRRIGATION  
utilization of sewage)

GOROMOSOV, M.S., doktor med. nauk; DANTSIG, N.M., prof.; KYUPAR,  
A.I., sanit. vrach; MINKH, A.A., prof.; PROKOF'IEV, A.F.,  
dots.; SILIVANIK, K.Ye., doktor med. nauk [deceased];  
UVAROV, M.M., kand. med. nauk; SHAFIR, A.I., prof.;  
SHTREYS, A.I., prof.; KROTKOV, F.G., prof., otv. red.;  
SELESKERIDI, I.G., red.; ROMANOVA, Z.A., tekhn. red.;  
MIRONOVA, A.M., tekhn. red.

[Manual on communal hygiene] Rukovodstvo po kommunal'noi  
gigiene. Moskva, Medgiz. Vol.3.[Hygiene of residential  
and public buildings] Gigiena zhilykh i obshchestvennykh  
zdaniii. Red. toma Goromosov i A.I.Shafir. 1963. 486 p.  
(MIRA 17:2)

1. Deystvitel'nyy chlen AMN SSSR (for Krotkov). 2. Chlen-  
korrespondent AMN SSSR (for Minkh).



I.  
KYUPAR, I., inzhener-polkovnik

Problems in the meeting of a guided missile and the target as revealed by foreign press data. Voen. vest. 41 no.9:118-121 S '61.  
(MIRA 15:1)  
(Shooting, Military) (Guided missiles)

KYUPAR, I. I.; FESENKO, P.V., red.; CHAPAYEVA, R.I., tekhn. red.

[Guidance of antiaircraft rockets] Navedenie na tsel' zenitnykh raket. Moskva, Voenizdat, 1963. 88 p.

(MIRA 16:11)

(Guided missiles--Guidance systems)

B/005/62/000/001/002/002  
D274/D303

AUTHORS: Petkov, T., Tomov, I., and Kyupribashev, R., Engineers

TITLE: An automatic device for controlling the hardness of machine components by a magnetic method

PERIODICAL: Mashinostroenie, no. 1, 1962, 43 - 45

TEXT: Investigations were carried out at MEI, Scfia, in order to determine the possibility of constructing an automatic device which can grade machine components according to their hardness. The object of the investigations was the dependence between the residual magnetic induction Br in the investigated specimens and the hardness (thermal treatment). Cylindrical specimens were found to be most suitable for the experiment. Three types of steel were tested: ordinary carbon steel, steel CT 45 (ST45) and alloyed steel CT 4 X BC (ST4KhVS). Similar specimens were thermally treated, and then magnetized in a constant electromagnetic field for 10 sec. Afterwards, each of the specimens was dropped from the same height through a measuring coil. In this way it was proved that the residual induction is almost equal for the different components.

Card 1/2

ZHOGIN, V.M., KYUR, R. YA.

Forging

Making forgings on forging machines without loss of metal incidental to clamping.  
Avt.trakt.prom., no. 7, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, NOVEMBER 1952. UNCLASSIFIED.

KYUR-MURATOV, A. P.

KYUR-MURATOV, A. P. (Doctor of Veterinary Sciences). Concerning a literary waste.

To: Veterinariya; 22; (2-3); February/March 1945; Unclassified.  
TABCON

KYURANOVA, Nevyana (Sofiya)

Bulgarian cuisine. Rabetnitsa 34 no.7:31 J1 '56. (MIRA 9:9)  
(Cookery, Bulgarian)

USSR/Cultivated Plants. Grains.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20291.

Author : V. Kyurdzhiev.

Inst : Stavropol'skiy Agricultural Institute.

Title : Several Problems in the Biology of Rice Seed Germination. (Nekotoryye voprosy biologii prorastaniya semyan risa).

Orig Pub: Sb.nauchno-issled. rabot stud. Stavropol'sk. s.-kh. in-ta, 1956, vyp. 4, 7-10.

**Abstract:** The effect of various conditions and the collapsing of seeds on the germination of rice seed has been studied. The seeds sprouted at various temperatures, in various beds and with different water strats. The germination of collapsed rice grains proved most efficient on filter paper underneath a layer of water of 2-3 cm at 30° temperature.

Card : 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928330001-5"

Tbilisi State Univ.

расчета. Цветущийся интеграл для градиента изотермии для градиента изотермии радиации. Зап. градиент. Балг. 1977. 140 с. (Нарб. и Зап. 1977. 20291. Зап. 1980. 115.)

850. Борисов С.А. и Альберт. Рона. Применение органических соединений для разрастания зеленых. Зап. 1948. 26. 6.

851. Ганс Ф. Гард К. Карл А. Герман. Продолжительное выдерживание влаги в аглютинации. Зап. 1944. 30. 1. [1] Бер. Ак. Амер. Гр. ПТУ. 1947. 30. 1. 30. 1947]

852. Гюнтер Ф. Г. Платон В. Николаевна. Исследование на области гидрофобии. Зап. 1938. 64 с. (Бер. академии ФДАН СССР). Зап. 1938. 25. 9.

853. Гюнтер Ф. Г. К вопросу о механизмах прорастания спорыньи. Труды Института биологии и гидробиологии Академии наук ССР. Зап. 1938. 76. с. 1. (Биологическая лаборатория.)

854. Давидсон Мария Ильинична. География. Выявление спорыньи как агента на прорастание. Успешные и неудачные попытки (исследование гидробиологии). Труды Института биологии и гидробиологии Академии наук ССР. Зап. 1945. 105 с. с рисунками.

855. Давидсон Мария Ильинична. Агент прорастания. Сорт, исследование и календарное применение гидробиологии в сельском хозяйстве и животноводстве. Зап. 1947. 112.

856. Давидсон Мария Ильинична. Культурные виды Ориана. Агент прорастания, применение при посеве. Изменение корневого гетерогенности Агнобиотика (противо-вирусного средства) в зависимости от времени посева. Зап. 1950. 22.12.

857. Капитонов Халим Нигматович. Метод Капитонова Захара Ариевича Метод Капитонова Захара Ариевича для определения изотермии прорастания зародышей подсолнечника с количественным изучением количества прорастания. Работы Капитонова Халима Нигматовича. Ереван. 1953. Зап. 1956. 15. 3.

858. Казаков А. А. Получение первичных колоний из бактерий. Зап. 1956. 23. 3.

859. Маркела Георгиевна. Техника извлечения из плодов семян с помощью органических растворителей. Зап. 1956. 29. 3.

860. Маркела Георгиевна. Извлечение из плодов семян с помощью органических растворителей. Зап. 1956. 16. 3. (Комитет здравоохранения АН Арм. ССР.)

706

Dissertation for Candidate of  
Candidate Optical Science

Kyuregyan, E.A.

USSR/Soil Science - Physical and Chemical Properties of Soil. J-3

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20078

Author : Kyuregyan, E.A.

Inst : The Institute for Geographical Sciences, Academy of Sciences, Armenian SSR.

Title : A Contribution to the Problem of Bleaching Water Extracts of Soil for the Colorimetric Determination of Molybdenum.

Orig Pub : Izv. AN ArmSSR, fiz.-matem., yestestv. i tekhn. n., 1956, 9, No 10, 103-106.

Abstract : In tests made at the Institute for Geographical Sciences of the Academy of Sciences Armenian SSR the best bleaching of soil water extracts was attained by oxidizing the filtrates with a 30% solution of ammonium persulfate  $(\text{NH}_4)_2\text{S}_2\text{O}_8$ . This process speeds up the filtration of the water extracts and makes it possible to determine the Mo in them directly during field conditions.

Card 1/1

KYUREGYAN E.A.

KYUREG YAN, E.A.  
KYUREGYAN, E.A.

Field laboratory to determine some elements in waters and water extracts.  
Izv. AN Arm. SSR. Ser. geol. i geog. nauk 10 no.3:71-77 '57.

1. Institut geologicheskikh nauk AN ArmSSR,  
(Water--Analysis) (MIRA 10:12)

14(5)

SOV/172-11-5-7/9

AUTHOR: Kyuregyan, E.A.

TITLE: Reaction of Extracts in Hydro-Chemical Soil Prospecting Survey  
(Reaktsiya vytyazhek pri poiskovoy pochvenno-gidrokhimicheskoy  
s"yemke")

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Seriya geologicheskikh i  
geograficheskikh nauk, 1958, Vol 11, Nr 5, pp 55-60 (USSR)

ABSTRACT: Water can be considered as having the greatest effect on primary rock. However, not all mineral, organic or mineralo-organic combinations existing in soil are accessible to the interaction with water. To investigate the behavior of difficultly dissolvable soil combinations, acid extractions have been made in addition to water extractions. In this connection hydro-chloric, sulfuric acid, nitric acid and acetic acid extractions have been tried out. The weight ratio of soil to acid solutions was 1 : 10, e.g., 5 g of soil were mixed with 50 ml of acid. Filtration of acid extracts (in cold or heated conditions) proceeds at a fast rate, which is a very favorable factor. As a result of extraction of molybdenum and copper by means of acid solutions, and of chromium by means of

Card 1/2

SOV/172-11-5-7/9

Reaction of Extracts in Hydro-Chemical Soil Prospecting Survey

ammonium solutions, better indices of concentration of these elements have been obtained. Analyses are easier made on the basis of macro concentrations than in micro concentrations. In prospecting for Mo and Cu it will be time-saving, during field work, to use sulfuric acid or acetic acid extractions, since both reveal the presence of Mo and Cu. However, in laboratory work for the purpose of obtaining precise data, sulfuric acid extractions should be used for Mo, and acetic acid extractions for Cu. Acid extractions can be made in cold condition, which is a great asset in the case of field work. There are 2 sets of graphs, 1 graph, 4 tables and 4 Soviet references.

ASSOCIATION: Institut geologicheskikh nauk AN Armyanskoy SSR (Institute of Geological Sciences of the AS Armenian SSR)  
SUBMITTED: May 15, 1958

Card 2/2

KYUREGYAN, E.A.

Using S. D. Gritsiuta's method for detecting cobalt in natural waters  
and in waters extracted from [redacted]. Izv. An Arm. SSR. Geol. i geog.  
nauki 14 no.3:37-42 '61. (MIRA 14:8)  
(Cobalt) (Water, Underground)

SATIAN, M.A.; KYUREGYAN, E.A.; MKRTCHYAN, G.M.; MARTIROSYAN, M.Ya.

Distribution of molybdenum in sediments in the area of the Lake  
Greater Sevan. Izv. AN Arm. SSR. Geol.i geog. nauki 15 no.2:31..34  
'62. (MIRA 15:5)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.  
(Sevan Lake region--Molybdenum)

KYUREGYAN, E.A.

Determination of small quantities of lead in natural waters and  
water extracts from soils using the new Plumbon IREA reagent.  
Izv. AN Arm.SSR. Geol.i geog.nauki 16 no.4/5:163-166 '63.

1. Institut geologicheskikh nauk AN Armyanskoy SSR. (MIRA 16:12)

KYUREGYAN, E.A.; EKSUZYAN, TS.O.

Determining small quantities of silver in waters and rocks. Izv.  
AN Arm.SSR Nauki o zem. 17 no.6:59-62 '64 (MIRA 18:2)

1. Institut geologicheskikh nauk AN ArmSSR.

KYUREGYAN, E.A.

Use of small soil samples in hydrogeochemical prospecting for  
nickel and cobalt. Izv. AN Arm. SSR. Nauki o zem. 18 no. 3/4,  
142-144 '65.  
(MIRA 18:9)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.

KYUREGYAN, M. A.

"Winter Losses of Warm Air Masses in an ETS Region and Their Synoptic Conditions".  
Nauch. tr. Yerevansk. un-ta, ser. geogr., No 1, pp 93-118, 1954, (Armenain resume)

For the purpose of studying winter warming up, the author considers the corresponding conditions from January to March in Gorki, Kursk, Moscow, Gor'kiy, and Vologda; warming up refers to temperature rise in at least three of these stations to  $0^{\circ}$  and higher. Synoptic processes leading to warming up are divided into five types illustrated by survey maps; all the types are further divided into western and southern groups. For the indicated synoptic types the author deduces quantitative characteristics of temperature at the chosen points. He uses the data of vertical sounding for the spatial representation of the processes of various types. He emphasizes that external convergence of baric systems does not determine the analogy of their thermal properties. (RZhGeol, No 9, 1955)

SO: Sum No 884, 9 Apr 1956

NOVIKOV, Andrey Vladimirovich, kand.tekhn.nauk, dotsent; KYUREGYAN, Sergey  
Grigor'yevich, aspirant

Modeling of an asynchronous generator with capacitive excitation.  
Izv.vys.ucheb.zav., elektromekhanika 8 no.6:655-659 '65.

1. Kafedra elektricheskikh mashin Kiievskogo politekhnicheskogo  
instituta (for Novikov). 2. Institut elekrodinamiki AN UkrSSR  
(for Kyuregyan).

(MIRA 18:8)

KYUREGYAN, S.K., kand.tekhn.nauk; MARENOVA, M.M.

Using the method of spectrum analysis in evaluating the wear of  
an engine. Avt.prom. 31 no.10:10-12 0 '65.

(MIRA 18:10)

*KYUREGYAN, S. K.*

AUTHOR: Kyuregyan, S. K.

TITLE: The Catalytic Action of Metals on the Lacquer Formation  
During Friction (O kataliticheskem deystvii metallov  
na lakoobrazovaniye pri nalichii treniya)

65-58-4-4/12

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1959, Nr 4,  
pp 23 - 25 (USSR)

ABSTRACT: Investigations on the effect of metals on the lacquer formation during friction were carried out on a device for evaluating the tendency of oils to form lacquers (Fig.1). Oils which are in the form of a thin layer on the metallic friction surface are converted at high temperatures into a layer of lacquer. The start of the lacquer formation is defined by the increase between the coefficient of friction between the friction surfaces. The period of lacquer formation is the time (in minutes) during which the oil, under experimental conditions, loses its efficiency and changes into a layer of lacquer. The tests were carried out on the commercial oil MK-22, the thickness of the oil layer being 50 mil. In the temperature range of 210°- 230° the most intensive lacquer formation occurs when the oil is applied in the form of a sprayed vapour between the steel and the cast

Card 1/2

65-58-4-4/12

The Catalytic Action of Metals on the Lacquer Formation During Friction

iron. Between aluminium - aluminium surfaces the rate of lacquer formation is two to three times lower, and between brass - brass surfaces three to four times lower. Fig.2: the rate of lacquer formation on a steel ring and brass pins; Fig.3: the effect of two metals on the lacquer formation in the oil MK-22. Aluminium hardly affects the rate of lacquer formation. Aluminium is an active oxidation catalyst during friction; steel and cast iron show weaker action, and brass inhibits the oxidation of the oil. Apart from the catalytic action, aluminium hardly affects the lacquer formation and brass retards the lacquer formation. During the lacquer formation, the detergative properties of the oils, as well as oxidation properties, are deciding factors. The detergative properties of oils are in the following order: aluminium > steel and cast iron > brass. Results of the experiments, carried out at 250°C are tabulated on page 24. There are 3 figures and 1 table.

- Card 2/2
1. Lubricating oils-Lacquer formation-Test results
  2. Lubricating oils-Catalysis
  3. Iron catalysts-Test results
  4. Steel catalysts-Test results
  5. Aluminum catalysts-Test results
  6. Brass catalysts-Test results

KYUREGYAN, S.K.; KUZNETSOVA, O.A.

Effect of the chemical composition of oil on lacquer formation  
and receptivity to additives. Khim. i tekhnopl.i mazel 4  
no.2:49-51 F '59. (MIRA 12:2)  
(Lubrication and lubricants)

KAZACHEVSKIY, I.V.; CHERDYNTSEV, V.V.; KUZ'MINA, Ye.A.; SULERZHITSKIY, L.D.;  
MOCHALOVA, V.F.; KYUREGYAN, T.N.

Isotope composition of uranium and thorium in the supergene zone.  
Natural waters. Volcanic sediments. Geokhimiia no.11:1116-1121 N  
'64.

(MIRA 18:8)

1. Geological Institute, Academy of Sciences of the U.S.S.R., Moscow.

KYURI F.Zh.

AUTHOR: Not given  
TITLE: New Publications (Novaya literatura)  
PERIODICAL: Atomnaya Energiya, 1957, Vol 3, Nr 9, p 278-278 (U.S.S.R.) 89-9-32/32

ABSTRACT:

- 1.) BRESLER,S.E.: "Radioactive Elements", 3.revised edition. State Publishing House for Technology, 1957, 500 pages, price 16,30 roubles.
- 2.) "Problems of Atomic Energy", Collection of translations and surveys of foreign journals, Nr 2, 1957, Publishing House for Foreign Literature, 104 pages, price 7 roubles.
- 3.) KORABIEV,L.N.: "A New Use for Tubes with Cold Cathode in Impulse Devices", USSR Publishing House for Technological Works, 1956, 200 pages with illustrations, price 56 roubles.
- 4.) KYURI F.Zh.: "Selected Works. Frederic and Irene Joliot-Curie, Works published by the Academy of Sciences of the USSR, 1957, 562 pages, price 32 roubles.
- 5.) Material concerning the Geneva Atomic Conference, vol. 4: "Effective Cross Sections which are Important for Reactor Projecting", price 30 roubles, published Academy of Sciences of the USSR, 1957, 420 pages.

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928330001-5

VEGER, M.G.; KYURI, N.P.

The use of machines to prepare author indexes of a simple type.  
NTI no.6:21 '63.  
(MIRA 17:1)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928330001-5"

BOLOTINA, F.Ye.; GAMBARYAN, Kh.P.; DENISOVA, G.A.; DUBROVINA, I.I.; KOZHINA, I.S.; KYURKCHAN, V.N.; MAKAROVA, T.I.; PAVLOVA, U.G.; REZVETSOV, O.A.; SMIRNOVA, V.V.; SURZHIN, S.N., kand. tekhn. nauk; TAMAMSHYAN, S.G.; TRUSOVA, S.A.; FILOGRIYEVSKAYA, Z.D.; CHINENOVA, E.G.; SHISHKINA, N.N.; IL'IN, M.M., zasl. deyatel' nauki RSFSR, doktor biol. nauk prof., red.; PRITYKINA, L.A., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Spice and aromatic plants of the U.S.S.R. and their use in the food industry] Priano-aromaticeskie rastenia SSSR i ikh ispol'zovanie v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1963. 430 p. (MIRA 17:2)

KYURKCHIEV, Atanas,

Scientific-Technical Standardization of Work. Elektroenergia (Electric  
Power), #10:1 Oct 54

L 10237-63

BDS/EV (u) — AFFTC/ASD — IJP(C)

ACCESSION NR: AP3000036

S/0056/63/044/005/1470/1473

AUTHOR: Zlateva, A. Y.; Kyurkcheva, D. T.; Markov, P. K.; Chernov, Kh. M. (B)  
TITLE: Elastic proton-proton scattering at 6.2 Bev. 59  
54

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 44, no. 5, 1963, 1470-1473

TOPIC TAGS: proton-proton scattering, elastic, emulsion technique, perpendicular  
irradiationABSTRACT: Elastic p-p scattering at 6.2 BeV was measured by perpendicular  
irradiation of nuclear emulsions which yields the required information more  
rapidly than the usual parallel irradiation when the differential cross sections  
for high-energy elastic scattering is measured at small angles (up to 1° in the  
center of mass system). The differential cross section was obtained for the 1.3  
- 10.5° c.m.s. range. The results, together with the data obtained by the  
authors elsewhere (Zhurnal eksperimental'noy i teoreticheskoy fiziki, vol. 37,  
910, 1959, and vol. 38, 1471, 1960), together with the results of Cork, Wenzel,  
and Causey (Phys. Rev. vol. 107, 859, 1957), cover the broad c.m.s. range 1.3 -

Card 1/2

L 10237-63  
ACCESSION NR: AP3000036

27.6°, which is of decided interest in the theory of Regge poles. The elastic scattering cross section is 9.8 plus or minus 0.9 millibarns. The experimental results are analyzed on the basis of a quasi-classical model. "In conclusion we wish to thank the directors of the High Energy Laboratory of the Joint Institute of Nuclear Research for the irradiation and chemical processing of the emulsion stacks. We also thank M. G. Shafranova, Ye. N. Tsayganov, B. A. Shakhbazyan, and I. N. Silin for participating in discussions of the results..." Orig. art. has: 1 figure, 3 formulas, 1 table.

ASSOCIATION: Physics Institute, Bulgarian Academy of Sciences

SUBMITTED: 01Dec62 DATE ACQ: 12Jun63 BNCL: 00  
SUB CODE: PH NR REF Sov: 005 COTHER: 007

Card

Q0emj/fk  
2/2

KYURKCHYAN, A.

Economical supports for vineyards. Prom.Arm. 5 no.3:49 Mr '62.  
(MIRA 15:4)  
1. Yerevanskiy kombinat keramicheskikh izdeliy.  
(Armenia—Viticulture—Equipment and supplies)

KYURKCHYAN, V.N.

USSR

Chemical composition and properties of milk from Lori breed of cattle. V. N. Kyurkchyan and M. M. Davtyan. Trudy Inst. Zhirinovodstva Akad. Nauk SSSR. Ser. i Zagotok Armyaz. S.S.R. 1953, No. 4, 177-201. Referat. Zhur. Khim. 1954, No. 31866. M. Hesch

KYURECHYAN, V.N.

Technological production indices and output of Swiss cheese. Izv.  
AN Arm.SSR.Biol.i sel'khoz.nauki. 4 no.10:965-970 '51. (MLRA 9:8)

1. Institut zhivotnovodstva Ministerstva sel'skogo khozyaystva  
Armyanskoy SSR.

(Armenia--Cheese)

KYURCHYAN, V.N., MAGAKYAN, A.T.

Change in the weight of cheese kept under different brining conditions. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 6 no.7:61-67 '53.  
(MLRA 9:8)

1. Institut zhivotnovodstva Ministerstva sel'skogo khozyaystva  
Armyanskoy SSR.

(Armenia--Cheese)

K YURKCHYAN, V.N.

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry.

I-30

Ref Zhur - Khimiya, No 3, 1957, No 10396

Author : Kyurkchyan, V.N.  
Inst : Academy of Sciences Armenian SSR  
Title : The Distinctive Features of Erevan Cheese and New Improvements in Its Production Process  
Orig Pub : Izv. AN ArmSSR, Section on Biological and Agricultural Sciences, 1955, Vol 8, No 12, 99-104  
Abstract : Erevan cheese is a variant of the brine cheeses of the Caucasian group. New improvements in its production process call for the utilisation of brines of low and moderate concentrations. The salt content in the brine and the moisture content of the unripened cheese are interrelated and also depend on the salting period. The brine is prepared from skimmed milk serum and enriched with the products of microflora life activity, which hasten the development of flavor and aroma. The cheese is packaged before ripening is completed.  
Card : 1/1

KYURKCHYAN, V.N.; SHAKHBAZYAN, B.A.

Free amino acids in brine cheeses. Dokl. AN Arz. SSR 26 no.3:  
163-166 '58.  
(MIRA 12:10)

1. Armyanskiy nauchno-issledovatel'skly institut zhivotnovodstva  
i veterinarii Ministerstva sel'skogo khozyaystva Armianskoy SSR.  
Predstavleno M.A.Ter-Karapetyanom.  
(Cheese)

KYURKCHYAN, V.N., kand.sel'skokhozyaystvennykh nauk; SHAKHBAZYAN, B.A.,  
mladshiy nauchnyy sotrudnik

Content of calcium and phosphorus in the milk of cows in some  
zones of the Armenian S.S.R. Trudy Arm. nauch.-issl. inst.zhiv.  
i vet. 4:107-120 '60.  
(Armenia--Milk--Composition) (MIRA 15:5)

KYURKCHYAN, V.N., kand.sel'mkokhozyaystvennykh nauk

Effect of the concentration of the desalinated substances of a salt solution on the composition and physicochemical properties of cheese. Trudy Arm. nauch.-issl. inst.zhiv. i vet. 4:121-129 '60.  
(Cheese--Analysis) (MIRA 15:5)

INIKHOV, G.S., zasl. deyatel' nauki i tekhniki, doktor khim. nauk, prof.; SKORODUMOVA, A.M., kand. biol. nauk; SHAPIRO, L.R. [deceased]; MILYUTINA, L.A., inzh.; DEMUROV, M.G., kand. sel'khoz. nauk; LEBEDEVA, K.S., kand. sel'khoz. nauk; KYURKCHAN, V.N.; VASILEVSKIY, V.G., inzh.; SAVINOVSKIY, N.G., kand. tekhn. nauk; VEDRASHKO, V.F., kand. med. nauk; SOKOLOVSKIY, V.P., prof.; BEGUNOV, V.L., inzh.; KAZENNOVA, A.R.; VEDRASHKO, V.F., kand. med. nauk; KOSTYGOV, V.V., red.; SKURIKHIN, M.A., MOLCHANNOVA, O.P., doktor biol. nauk, prof.; SPERANSKIY, G.N., zasl. deyatel' nauki, doktor med. nauk, prof.; KISINA, Ye.I., tekhn. red.

[Dairy foods] Molochnaya pishcha. Moskva, Pishchepromizdat, 1962. 419 p. (MIRA 15:10)

1. Glavnyy kulinar Ministerstva torgovli RSFSR (for Kazanova).
  2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Speranskiy, Skurikhin). 3. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Molchanova).
- (Cookery (Dairy products)) (Dairy products)

KYURSHNER, K.; SHVEYTSPAIKHEROVA, T.

New method for quantitative determination of lignin. Zhur.prikl.khim. 26  
no.11:1176-1185 N '53. (MLRA 6:11)

1. Nauchno-isspytatel'nyy institut lesnoy promyshlennosti, Bratislava.  
(Lignin)

KYURSHNER, K.

Subject : USSR/Chemistry AID P - 3495  
 Card 1/1 Pub. 152 - 10/21  
 Author : Kyurshner, K.  
 Title : Quantitative determination of lignosulfonic acids in sulfite liquors  
 Periodical : Zhur. prikl. khim., 28, 629-633, 1955  
 Abstract : A rapid method of quantitative determination of lignosulfonic acids based on the determination of methoxy groups contained in the calcium salts of lignosulfonic acids is given. The method is not completely accurate. Two drawings, 1 table, 9 references, 3 Russian (1951-1953).  
 Institution : Slovakian Academy of Sciences Bratislava  
 Submitted : 015, 1954

Subject : USSR/Chemistry AID F - 3745  
 Card 1/1 Pub. 152 - 9/22  
 Author : Kyurshner, Karl  
 Title : Difficulties occurring in the manufacture of vanillin from sulfite liquors  
 Periodical : Zhur. prikl. khim. 28, 9, 957-968, 1955  
 Abstract : This is an extensive review of the preparation of vanillin from sulfite liquors. The intermediate product is apparently aldol from which vanillin and phenol derivatives are formed. 85 references, 7 Russian (1934-1951).  
 Institution : Slovakian Academy of Sciences, Section of Wood Research Bratislava, Czechoslovakia  
 Submitted : Ja 21, 1955

Double bonds in natural lignins. K. Kursunov and V. Gostounskii (Slovakian Acad. Sci., Bratislava), Zher. Fiz.-Khim., 29, 1820-40 (1953). In C.A. 43, 8620. The earlier method for the detn. of lignin (*loc. cit.*) was simplified as follows: absolutely dry sawdust, extd. with EtOH-CuJ, is placed in a flask to which is added a sealed glass ampule contg. Br-water (3.1 ml.) is added and the flask is evacuated. The ampule is broken and the flask kept 0.5 hr. in the dark. Then 10 ml. 10% KI soln., a little starch is added and the I no. detd. by titration with  $\text{Na}_2\text{S}_2\text{O}_3$ ; titration is completed after heating the flask to 50°. Bromination is effected by solvents such as  $\text{CHCl}_3$ , MeOH, glacial AcOB, abs. EtOH, and  $\text{H}_2\text{O}$ . In the presence of  $\text{CHCl}_3$ , Br adds to the aliphatic bond. In the presence of a large amt. of MeOH Br substitutes H in the aromatic ring. Substitution predominates in the presence of 0.25 ml.  $\text{H}_2\text{O}$ . With abs. EtOH secondary reactions occur. These expts. are taken as proof of the existence of aliphatic bonds in lignin and support the occurrence of a condensed alc. structure in it.

I. Denoncourt

Kyurt, O.S.

## PHASE I BOOK EXPLOITATION:

SOV/362

Academy наук ССР. Institut Metallurgii.

Издавательство Научн. литературы по металлическим материалам. № 2 (Аналитик 2)

Металлы. Технический журнал. Вып. 2. Металлы. Коллекция статей. 1960. 202 с. Фотоальбом введен. 2,000 copies printed.

Ed.: I.A. Odintsov, Corresponding Member USSR Academy of Sciences; V.S. Rabinovich, Tech. Ed.; T.P. Polikarova, Editorial; Collection of Articles, 1960-2 (2) Moscow, Izd-vo Akad. Nauk SSSR.

Publishing Board: A.I. Rodina, V.S. Rabinovich, Tech. Ed.; T.P. Polikarova, Editorial; Collection of Articles, 1960-2 (2) Moscow, Izd-vo Akad. Nauk SSSR.

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Found: A.I. Rodina, V.S. Rabinovich, Tech. Ed.; T.P. Polikarova, Editorial; Collection of Articles, 1960-2 (2) Moscow, Izd-vo Akad. Nauk SSSR.

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ACQUISITION NR: A15025192 HU/2502/64/042/004/0305/0316  
44, 15  
AUTHOR: Hegedus, Andras J. (Khegedyush, A. Ya.) (Doctor) (Budapest); Murthy, Judith  
(Kyurti, Ya.) (Budapest) 44, 55  
TITLE: Processes at the tungsten/gas phase boundary at elevated temperatures. 53  
Relation between these processes and the corrosion of the tungsten 27  
44, 55 18 SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 4, 1964, 50  
305-316 134  
TOPIC TAGS: tungsten, electrode, oxidation  
Abstract: [German article] Reactions taking place at the tungsten-gas phase boundary on tungsten electrodes at elevated temperatures were investigated. The tungsten oxide layer, formed in air, begins to be eliminated by oxidation at temperatures of > 800°C. The strength of the emission current, evident at temperatures of > 1000°C, depends on the thickness of any oxide layer present. The relations between conductivity and oxide layer were investigated and the results were compared with values reported in the literature. The authors thank Mr. E. Oldal and Mr. J. Tobik for their stimulating discussions, Student of Chemistry G. Mollos for the enthusiastic cooperation with the measurements, Director F. Komvaz for the approval of the publication, and Card 1/2

L 1188-66

ACCESSION NR: AT5025192

the Tungaram AG for the financial support of the work." Orig. art. has 5 graphs and  
1 table.

ASSOCIATION: Forschungsinstitut fur die Nachrichtentechnische Industrie, MIKI,  
Abteilung fur Grundstoffprufung, Budapest (Research Institute for the Communications  
Technological Industry, MIKI, Department of Raw Material Testing)

SUBMITTED: 14Feb64

NO REF Sov: 000

ENCL: 00

OTHER: 031

SUB CODE: IC, GC

JPRS

Card 2/2

KYURTOL, M.

1. Name of organization for which  
person was engaged  
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person was engaged  
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KYUSTER, A. A.

Blood supply to Filatov's flap according to date of roentgenoscopy during life. Khirurgija, Moskva no. 6:19-22 June 1952.  
(CLML 22:4)

1. Of the Central Institute of Traumatology and Orthopedics of the Ministry of Public Health USSR (Director -- Prof. N. N. Priorov, Honored Worker in Science, Corresponding Member of the Academy of Medical Sciences USSR).

KYUSTFR, A.A. (Moskva, Nizhnyaya Krasnosel'skaya ul., d.5, kv.3)

Abstracts of articles received by the editors. Ort. travm.  
i protez. 23 no.10:82 O '62. (MIRA 17:10)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir.-  
deystvitel'nyy chlen AMN SSSR prof. N.N. Priorov [deceased]).

KYUSTER, A.A. (Moskva, Nizhnyaya Krasnosel'skaya ul., d.5, kv.3)

Case of surgical treatment in multiple fractures of the metacarpal bones and finger phalanges. Ortop., travm. i protez. 26 no.2:65 F '65.

(MIRA 18:5)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov).

18.7400

67420

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 12, p 129  
(USSR)

SOV/123-59-12-46834

AUTHORS: Konstantinova, N.G., Kyuther, M.A.

TITLE: Heatproof Lacquer Coatings 15

PERIODICAL: V sb.: Vses. nauchno-tekhn. soveshchaniye po korrozii i zashchite  
metallov, Nr 5, Moscow, Profizdat, 1958, pp 9-10ABSTRACT:  
The heatproof lacquer materials, manufactured at present, do not meet the increased requirements of the designers. Their deficiencies are, among others, the necessity of drying the coatings at a temperature of 150 - 200°C, and the lowering of their resistance to impact, of elasticity and resistance to wear under the effects of high temperatures. It is possible to obtain coatings, which are more resistant to oxidation and to the effects of high temperatures, from silicon organic resins and titanium organic compounds. The pigment with the highest resistance to heat is aluminum powder. On the base of silicon organic resin<sup>15</sup> the hot-drying Nr 9 aluminum enamel has been developed which ensures a heatproof coating up to 450 - 550°C, as well as the cold-drying K-1<sup>15</sup> and K-2 enamels of

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928330001-5

Heatproof Lacquer Coatings

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SOV/123-59-12-46834

various colors, which ensure a heat resistance of the coating up to 250 - 400°C.

K.L.M.

Card 2/2

KYUTNER, M.A.

15.8170

37775  
S/661/61/000/006/068/081  
D247/D302

2

AUTHORS: Konstantinova, N. G., Zhdanov, A. A., Andrianov, K. A.,  
Sharov, M. Ya., Kyutner, M. A. and Zakharov, A. A.

TITLE: Thermostable lacquer coatings based on silico-organic  
polymers

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganiches-  
kikh soyedineniy; trudy konferentsii, no. 6: Doklady,  
diskussii, resheniye. II Vses. konfer. po khimii i  
prakt. prim. kremneorg. soyed., Zen. 1958. Leningrad,  
Izd-vo AN SSSR, 1961, 296-299

TEXT: A study was made of the thermostability of several lacquer-  
painted materials on the basis of different film-forming substan-  
ces. The silico-organic resin K-47 was modified by the use of organ-  
ic polymers to give a hard, cold-drying coat of increased thermo-  
stability. The metallic surface and its preparation was found to  
have a great influence on the adhesion, the protective properties  
and the thermostability of the coatings. In the discussion, the  
Card 1/2

Thermostable lacquer coatings ...

S/651/61/000/006/068/081  
D247/D302

registration and technical specifications of some of the silico-organic varnishes are given. Elasticity and hardness data are also given. Coatings notwithstanding radioactive irradiation are mentioned. Comparison of the properties of silico-organic and other enamels are made, and methods of preparing surfaces before application of the enamels are mentioned. The best thermostability recorded was for a duration of 150 hours at 500°C. A discussion followed in which P. A. Filippov (Leningrad) took part.

Card 2/2

1. KYUTORVANSKIY M.S.
2. USSR (600)
4. Ukraine-Hollow brick, tile, etc.
7. Ceramic wall blocks made in the Ukrainian Soviet Republic, Biul.stroi.tekh.  
9 no.23, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TELCHAROV, L., prof.; KYUTUKCHIYEV, B. (Plovdiv, Bulgariya)

Experimental use of biopsy. Pat.fiziol. i eksp. terap. 7  
no.1:84-85 Ja-F'63. (MIRA 16:10)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. L.  
Telcharov) Vysshego meditsinskogo intituta imeni I.P.  
Pavlova.

(LIVER—BIOPSY)

KYUZ, E.P.; OPEL', V.V. [deceased]

Change in the collagen protein content of the skin after  
experimental burns. Vop. med. khim. & no.4:379-384 JI-  
Ag '62.  
(MIRA 17:11)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni Kirova,  
Leningrad.

L 2538-66

ACCESSION NR: AP5023283

UR/0302/65/000/003/0063/0066  
621.317.59:536.5AUTHOR: Bekker, B. Yu.; Boris, Ya. V.; Kyuzdemi, O. A.; Chechurina, M. N.3/  
B

TITLE: Small contactless temperature-signaling device

SOURCE: Avtomatika i proborostroyeniye, no. 3, 1965, 63-66

TOPIC TAGS: signaling device

ABSTRACT: The authors developed a new transistorized temperature-signaling device which comprises: a measuring unit yielding the difference in voltages across a resistance thermometer and a slide-wire rheostat; a 3-stage amplifier; a phase-sensitive unit for producing a smooth voltage corresponding to temperature changes; and an output unit that produces a sinusoidal output voltage at an overall gain of over 1000. Continuous faultless operation of the device for 6000 hr is reported. These characteristics are claimed: stable operation between -40 and +60°C under shock and vibration conditions; suitability for measuring low temperatures (to -200°C) in combination with conventional (46-100-ohm) resistance thermometers, or high temperatures (to 1000°C) with low-resistance (0.1-10-ohm) thermometers. Size of the experimental model is 244 x 178 x 118 mm. Orig. art. has: 2 figures and 12 formulas. [03]

Card 1/6

L 2538-66

ACCESSION NR: AP5023283

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 002

ENCL: 00

OTHER: 001

SUB CODE:TDEC

ATT PRESS: 710

Card 2/2 hcl

KYVALA, J.

Joining of hoses carrying compressed air in mines.

p. 331 (Rudy) Vol. 5, no. 9, Sept. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

S/121/60/000/010/002/015  
A004/A001

AUTHOR: Kyvkin, G. M.

TITLE: The Efficiency of Using Special Tool Equipment in Automated Production

PERIODICAL: Stanki i Instrument, 1960, No. 10, pp. 6-9

TEXT: The author points out that a fully automated process of mechanical machining, warranting a high labor efficiency, can only be attained if all necessary motions of the units controlling the auxiliary operations of setting, fixing and transportation of the work pieces as well as all motions of the tools are effected by the driving unit. The expediency of developing special tools for automated operation processes is solely determined by technological and economic calculations of the efficiency of their application. In order to ensure an efficient use of expensive automatic equipment, in most of the cases it is necessary to intensify the cutting conditions, i. e. above all to increase the economic cutting speed. This can be attained by using special tool equipment, since, in such a case, the economic cutting speed is increased on account of an increase in the wear resistance of the tool and a reduction of the operation cost owing to a

Card 1/3

S/121/60/000/010/002/015  
A004/A001

The Efficiency of Using Special Tool Equipment in Automated Production

decrease in the time necessary for the replacing and re-setting of the tools. The use of special tools, which are more expensive, in automated production increases at higher cutting speeds the specific tool costs in comparison to non-automated production. However, in this case the specific costs of machinery and, consequently, the total machining costs decrease. The use of special tools reduce the variable cost part, if the coefficient of variation of the minimum magnitude of the variable part of machining costs is smaller than 1. A reduction of the minimum magnitude of the variable part of machining costs determines the efficiency of new tool designs only in the case when the cost of machine-minute increases insignificantly. If the cost of machine-minute rises to a considerable extent, particularly in the case of the auxiliary time and idle time of equipment being considerable, the total prime costs of operation may increase on account of an increase in the cost of machine-minute even in the case of the minimum magnitude of the variable cost part of machining costs being reduced. The coefficient of variation of the total prime costs of operation  $K'_0$  total is determined by the following formula

(2)

$$K'_0 \text{ total} = \frac{E_{p_1} (t_{p_0} K_v + t_o + t_{np_0} K_{np})}{E_{p_0} (t_{p_0} + t_o + t_{np_0})} = K_{E_p} \frac{K_v + K_1 + K_2 K_{np}}{1 + K_1 + K_2}$$

Card 2/3

S/121/60/000/010/002/015  
A004/A001

The Efficiency of Using Special Tool Equipment in Automated Production  
where  $K_1 = \frac{t_{aux_0}}{t_{op_0}}$  is the ratio of the auxiliary time to the cutting time before new tools were employed,  $K_2 = \frac{t_{idle_0}}{t_{op_0}}$  is the ratio between the idle time and cutting time before new tools were used, and  $K_{idle} = \frac{t_{idle_1}}{t_{idle_0}}$  is the coefficient of idle time reduction when using new tools. An efficient use of new tool equipment is ensured if  $K_1^0$  total is lower than 1. The author then elucidated the various factors affecting the accuracy of the workpieces to be machined by the same tool and points out that, in order to ensure a full use of the tool during the period of its durability, some re-adjustments have to be effected. Concluding, the author points out that the selection of new special tool designs should be effected on the basis of comparing the efficiency and precision characteristics of the individual operation. There are 2 figures and 5 Soviet references.

Card 3/3

KYYV, M. N., Cand Phys-Math Sci (diss) -- "The systematics of mesons and baryons and some of their applications". Tartu, 1959. 16 pp (Tartu State U), 200 copies (KL, No 11, 1960, 128)

33656

24.6610

S/058/61/000/012/009/083  
A058/A101

AUTHOR: Kyyv, M.N.

TITLE: Concerning a Gyursey-type equation for baryons

PERIODICAL: Referativnyy zhurnal. Fizika, no. 12, 1961, 34, abstract 12A<sup>440</sup>  
(Tr. In-ta fiz. i astron. AN EstSSR, 1961, no. 13, 67-78, English  
summary)

TEXT: For describing baryons viewed according to the scheme of Tiomno  
(RZhFiz, 1958, no. 4, 7768) and Pokinghorn-Salam (RZhFiz, 1956, no. 12, 33314)  
there is interpolated an equation of the Gyursey type (RZhFiz, 1958, no. 9,  
1957). At the same time there are written out transformations that leave the  
fundamental equation invariant and to which there correspond rotations in iso-  
topic Tiomno and Pokinghorn spaces.

[Abstracter's note: Complete translation]

Card 1/1

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24.6610

AUTHOR:

Kyyv, M.N.

TITLE:

Concerning the difference in mass of nucleons

PERIODICAL:

Referativnyy zhurnal Fizika, no. 12, 1961, 34, abstract 12A441 (Tr. In-ta fiz. i astron. AN EstSSR, 1961, no. 13, 1961, 79-86, English summary)

TEXT:

In the work of Ogiyevetskiy et al. (RZhFiz, 1960, no. 2, 2570) there was derived a Gурзес equation for the proton-neutron using for the P, T and C transformations some projective representations instead of the conventional ones. The author tries to introduce into his formalism the difference in mass of protons and neutrons and shows that the obtained Gурзес equation is noninvariant with respect to the Pauli transformation.

[Abstracter's note: Complete translation]

33657  
S/058/61/000/012/000/083  
A058/A101

Card 1/1

X

AUTHOR:

Kyyv, M. N.

S/058/62/000/007/015/068  
A061/A101

TITLE:

On  $W \rightarrow 2\pi$  and  $\pi^\pm \rightarrow \pi^0 + e^\pm \pm \nu$  decays

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 7, 1962, 37, abstract 7A322 ("Tr. In-ta fiz. i astron. AN EstSSR", 1961, no. 16, 73 - 80; English summary)

TEXT:

An expression has been found for the amplitude of charged pion decay processes:  $\pi^\pm \rightarrow \pi^0 + e^\pm + \nu$  through decay amplitudes of "shi"-mesons  $W^\pm \rightarrow \pi^\pm + \pi^0$ , as suggested by Lee and Yang.

[Abstracter's note: Complete translation]

Card 1/1

KIRZIKOV, V. I.

155T9

USSR/Biology - Phosphorus in Plants

Plants, Tobacco Jan 50

"Forms of Phosphorus in the Leaves of Tobacco Plants That are Healthy, Infected With Mosaic Disease, and Starving," V. I. Ryzhkov, Corr Mem, Acad Sci USSR, O. S. Gorodskaya, Inst of Microbiol, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXX, No 1

Starvation of tobacco plants results in intensification of phosphorus mineralization processes in leaves with discharge of ribonucleic acid. Presence of mosaic infection and

USSR/Biology - Phosphorus in Plants  
(Contd) 155T9

Jan 50

accumulation of virus nucleoproteins does not correspond to similar increase in phosphorus content of nucleoprotein or nucleic acid. Nitrogen-phosphorus ratio in base fractions from diseased leaves is higher than similar fractions from healthy leaves. Diseased leaves have lowered phosphorus content. Submitted 29 Oct 49.

155T9

G. Kyzhman (USSR)

" Training of peat specialists at the Kalinin Peat Institute "

Report submitted for the 2nd International Peat Congress, Leningrad,  
15-22 Aug 63.

*Kyzin, I.A.*

312), 3(4)	Sokolova, O. I.	SOT/6-22-7-4/25
ABSTRACT:	Results of the Competition for the Best Improving Suggestions (Nogi Konkurs na luchshye razrabotki otkrytii) Predictions	
PERIODICAL:	Gorodets'kaya kartografiya, 1959, Nr. 7, pp. 17-21 (TMNS)	
ABSTRACT:	<p>In May 1959, the ordinary competition for the best improving suggestions in the field of topographic-geodetic and cartographic production was concluded at the Glavnaya Upravlyayushchaya Kartograficheskaya Sistemnyy MVD SSSR (Main Administration of Internal Affairs of Gosudarstvo i Kartografiya of the USSR). 7 aerogeodetic services, 6 cartographic institutes and NIIKhC took part. A total of 30 topographic-geodetic and 31 cartographic suggestions were submitted. The 1st prize of 1,000 rubles was awarded to V. A. Morozov and V. V. Urusov (Kazan' Kartograficheskaya Fabrika (Kazan' Cartographic Plant)) for the "Smallest Parameters of Aliss Blocks". The 2nd prizes of 750 rubles were awarded to 1) Ya. L. Barkalovskiy, V. M. Verbitskiy, Yu. N. Galitskiy, O. P. Sheleikin and V. P. Stepanov (Institut for "Geodesiya i Kartoziyanie") - 2) I. V. Gurevich, J. M. Varuzhian, E. O. Vinogradov (Kazan' Kartograficheskaya Fabrika (Kazan' Cartographic Plant)) for the "Naturalization Combined Dispositives" (inventors); 3) D. A. Larin (Tatarkovskiy ACP (Tatarkov ACP)) for "Selection of Error in Evaluating the Accuracy of Geometric Reductions by Parameters of Regular Shape"; 4) R. V. Sosulin (Tatarkovskiy ACP) for "Light Collapsible Ladder or Barrel for Prospecting" - The 3rd prizes (500 rubles each) were awarded to 1) V. Z. Sharafdin (Tatarkovskiy ACP (Tatarkov ACP)) for "Establishments of Fixed Points by the Method of Thinning by Means of Paper"; 2) I. D. Okishashvili (Tatarkovskiy ACP (Tatarkov ACP)) for Construction of an Overhead Trolley for Tables (Broshure); 3) Yu. A. Krivin (Moskovskiy ACP (Moscow ACP)) for "Variation in the Attachment of Photocamera on the STD-2"; 4) V. P. Zarubin (Zavodskaya ACP (Kostroma ACP)) for "Folding Instrument Case by Metal"; 5) D. I. Shulman, I. V. Gurevich, Z. I. Aleksandronova, I. M. Marzynin, L. M. Sizilkin and I. A. Kislitsyn (Kurchatov Institute) for "Mechanisms for the Construction of Topographic Maps by the Photocell Method"; 6) M. Z. Chashchin (Kirovogradskaya Kartograficheskaya Fabrika (Kirovograd Cartographic Institute)) for "Automatic Pillar Machine for Brochures"; 7) A. A. Markov (Zashchitnaya Kartograficheskaya Fabrika (Zashchitnaya Cartographic Institute)) for "Mechanism for the Location of Tracks with Paper Roll"; 8) A. M. Tscholko (Ural'skaya ACP (Orenburgskaya ACP)) for "Mechanisms of the Automatic Drawing Machine" - The 4th prize was awarded to the Belorusseiskiy Landesnoy Zemel'nyy Karta (Belarusian Land Surveying Service) with 1) G. N. Grigor'yev (Gorodets'kaya Kartograficheskaya Sistemnyy MVD SSSR (Gorodets'kaya Kartograficheskaya Sistemnyy MVD SSSR)) for "Preparation of Map Combinations and Final Computation"; 2) I. A. Isakilov (Sverdlovskaya Kartograficheskaya Fabrika (Sverdlovsk ACP)) for "Improvement of the Control Mechanism for the Ultrasonic Printer"; 3) N. N. Sosulin (Tatarkovskiy ACP (Tatarkov ACP)) for "Mechanism and Device for a More Rational Combination of Millimeter and Centimeter on the Trigonometric Line"; 4) D. G. Sosulin (Tatarkovskiy ACP (Tatarkov ACP)) for "See Number-Plate Reading of Landing Staffs"; 5) S. S. Smirnov (Tatarkovskiy ACP (Tatarkov ACP)) for "Formulas and Table for Estimating Differences Between the Free Terms of Polar and Baseline Conditioned Compound on a Plane and on a Ball"; - Besides, the following suggestions were approved by the jury: 1) V. Z. Gulyayev (Kartograficheskaya ACP (Kartograficheskaya ACP)) for "Microscopic Reader"; 2) S. V. Chirkov for "Universal Microscope Reader".</p>	
Card 1/6		
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Card 2/6

SOT/6-50-7-4/25

## Results of the Competition for the Best Improving Suggestion

(Severo-Zapadnoye AGP (North-west AGP) Department) In Determining the Corrections of Centering and Reducing With an Auxiliary Scale for Determining the Corrections of the Curvature of the Image of the Geodetic Line and of the Sphere Excess. 3) V. G. Mavryuk, (Moskovskoye AGP (Moscow AGP)), "Variation of the Construction of the Bellotrope". 4) G. I. Shcherbinov (Moskovskoye AGP (Moscow AGP)), "Zero Thermometer for The Gravimeter of the GAK-21". 5) P. I. Bougu (Moskovskoye AGP (Moscow AGP)), "Device for Cutting Aluminum". 6) A. I. Tikhmanov (Moskovskoye AGP (Moscow AGP)), "Preparation of Glue". 7) G. M. Granberg (Moskovskoye AGP (Moscow AGP)), "Preparation of Glue". 8) N. A. Zaitsevich and N. P. Olinchukova (Leningradskaya Kartographicheskaya Fabrika (Saint Petersburg Institute)), "A Method for Drawing Detailed Maps from Existing Official Courses". 9) L. M. Kostylev (Voronezhskaya Kartographicheskaya Fabrika (Voronezh Cartographic Institute)), "Service for Grind- ing the Edge of Plate Glass". 10) D. Yuukin (Moskovskaya Kartographicheskaya Fabrika (Moscow Cartographic Institute)), "A Simple Device for Drawing Lines on Paper". 11) V. V. Korolev (Voronezh Institute), "A Method for Lifting the Thread With the Ball". 12) A. I. Tikhmanov and S. A. Zolotnikov (Tula Kartographicheskaya Fabrika (Tula Cartographic Institute)), "Automatic Switch-off of the Lamp". 13) A. V. Neilyev (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Service for Grind- ing the Edge of Light-sensitive Rubber Solution (Adhesive)". 14) I. M. Shev (Ulyanovskaya Kartographicheskaya Fabrika (Kirov Cartographic Plant)), "Correspondence of the Stroke-wise Name on Topographic Maps With the Letters on the Machine-Printed Forms". 15) V. V. Borzilov (S.-I. Yukulin (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant))), "On the Improvement in the Construction of Mechanisms for Pressing-on the Inkling Rollers and Friction Drums on the Offset Machines (Platen-Super-Krava". 16) A. T. Sianenikov (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "A Rational Method of Making Prints of Printed Forms of Relief Printing on Transfer Paper for Printing Books on Offset Machines". 17) M. I. Andronikov (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "Synchronization and Automation of the Sealing and Separation of the Sheet of the Section Fan in the Copying Department". 18) V. P. Alekseev (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "Variation in the Construction of Outlines Maps of the Fifth Sheet". 19) V. I. Tymchenko (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Preparation of Collecionable Corresponding Positive by the Method of the Washed-out Plates on the Plates". 20) V. M. Didenko (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "A Rational Method of the Copying Process on the Copying Frame by Means of the Camera". 21) D. I. Smirnov (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Preparation of the Geometric Network on Maps to be Compiled". 22) K. I. Makarov (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "A Workbench for Reproducing the Images of the Optical Machine". 23) Yu. P. Tarasov (Leningradskaya Kartographicheskaya Fabrika (Leningrad Cartographic Plant)), "Device for Drawing Lines on the Edge of the Optical Machine". 24) A. V. Baglaryan (Tulich) "Improving the Method of Preparing the Silver Nitrate in Used Solutions".

Card 4/6

(Voronezhskaya Kartographicheskaya Fabrika (Voronezh Cartographic Plant)) "Service for Grind-ing the Edge of Light-sensitive Rubber Solution (Adhesive)". 12) I. M. Shev (Ulyanovskaya Kartographicheskaya Fabrika (Kirov Cartographic Plant)), "Correspondence of the Stroke-wise Name on Topographic Maps With the Letters on the Machine-Printed Forms". 13) V. V. Borzilov (S.-I. Yukulin (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant))), "On the Improvement in the Construction of Mechanisms for Pressing-on the Inkling Rollers and Friction Drums on the Offset Machines (Platen-Super-Krava". 16) A. T. Sianenikov (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "A Rational Method of Making Prints of Printed Forms of Relief Printing on Transfer Paper for Printing Books on Offset Machines". 17) M. I. Andronikov (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "Synchronization and Automation of the Sealing and Separation of the Sheet of the Section Fan in the Copying Department". 18) V. P. Alekseev (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "Variation in the Construction of Outlines Maps of the Fifth Sheet". 19) V. I. Tymchenko (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Preparation of Collecionable Corresponding Positive by the Method of the Washed-out Plates on the Plates". 20) V. M. Didenko (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "A Rational Method of the Copying Process on the Copying Frame by Means of the Camera". 21) D. I. Smirnov (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Preparation of the Geometric Network on Maps to be Compiled". 22) K. I. Makarov (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "A Workbench for Reproducing the Images of the Optical Machine". 23) Yu. P. Tarasov (Leningradskaya Kartographicheskaya Fabrika (Leningrad Cartographic Plant)), "Device for Drawing Lines on the Edge of the Optical Machine". 24) A. V. Baglaryan (Tulich) "Improving the Method of Preparing the Silver Nitrate in Used Solutions".

Card 5/6

(Voronezhskaya Kartographicheskaya Fabrika (Voronezh Cartographic Plant)) "Service for Grind-ing the Edge of Light-sensitive Rubber Solution (Adhesive)". 12) I. M. Shev (Ulyanovskaya Kartographicheskaya Fabrika (Kirov Cartographic Plant)), "Correspondence of the Stroke-wise Name on Topographic Maps With the Letters on the Machine-Printed Forms". 13) V. V. Borzilov (S.-I. Yukulin (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant))), "On the Improvement in the Construction of Mechanisms for Pressing-on the Inkling Rollers and Friction Drums on the Offset Machines (Platen-Super-Krava". 16) A. T. Sianenikov (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "A Rational Method of Making Prints of Printed Forms of Relief Printing on Transfer Paper for Printing Books on Offset Machines". 17) M. I. Andronikov (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "Synchronization and Automation of the Sealing and Separation of the Sheet of the Section Fan in the Copying Department". 18) V. P. Alekseev (Nizhnyaya Kartographicheskaya Fabrika (Nizhny Cartographic Plant)), "Variation in the Construction of Outlines Maps of the Fifth Sheet". 19) V. I. Tymchenko (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Preparation of Collecionable Corresponding Positive by the Method of the Washed-out Plates on the Plates". 20) V. M. Didenko (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "A Rational Method of the Copying Process on the Copying Frame by Means of the Camera". 21) D. I. Smirnov (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "Preparation of the Geometric Network on Maps to be Compiled". 22) K. I. Makarov (Tula Kartographicheskaya Fabrika (Tula Cartographic Plant)), "A Workbench for Reproducing the Images of the Optical Machine". 23) Yu. P. Tarasov (Leningradskaya Kartographicheskaya Fabrika (Leningrad Cartographic Plant)), "Device for Drawing Lines on the Edge of the Optical Machine". 24) A. V. Baglaryan (Tulich) "Improving the Method of Preparing the Silver Nitrate in Used Solutions".

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Card 6/6

KYZ'KA, YU F'

PHASE I BOOK EXPLOITATION

SOV/5658

Ivanov, Aleksandr Petrovich, Candidate of Technical Sciences, and  
Viktor Dmitriyevich Lisitsyn, Candidate of Technical Sciences,  
eds.

Modernizatsiya kuznechno-shtampovochnogo oborudovaniya (Moderni-  
zation of Die-Forging Equipment) Moscow, Mashgiz, 1961. 226 p.  
Errata slip inserted. 10,000 copies printed.

Reviewer: V. Ye. Nedorezov, Candidate of Technical Sciences; Ed.  
of Publishing House: T. L. Leykina; Tech. Ed.: A. A. Bardina;  
Managing Ed. for Literature on Machine-Building Technology  
(Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for foremen, machinists, designers,  
and process engineers concerned with the modernization and de-  
signing of die-forging equipment. It may also be used by students  
at schools of higher education.

COVERAGE: The book contains material presented at the Conference  
Card 1/8

Modernization of Die-Forging Equipment

27

SOV/5658

on Problems in the Modernization and Operation of Die-Forging Equipment, held in November 1958 in Leningrad. The Conference was called by Leningradskiy Sovet narodnogo khozyaystva, Sektsiya obrabotki metallov davleniem Leningradskogo oblastnogo pravleniya NTO Mashprom (Leningrad Council of the National Economy, Section of Metal Pressworking at the Leningrad Oblast Board of the Scientific and Technical Society of the Machine Industry) and Leningradskiy mekhanicheskiy institut (Leningrad Mechanical Engineering Institute). Actual problems in the modernization, operation, and repair of die-forging equipment are described. Analyses are provided for problems involved in the mechanization and automation of die-forging and stamping operations. Also included are practical data to be used in the modernization of equipment. No personalities are mentioned. There are 59 references; 56 Soviet, 2 German, and 1 English.

TABLE OF CONTENTS:

Foreword

3

Card 2/8

## Modernization of Die-Forging Equipment

SOV/5658

Ch. I. General Problems in the Modernization of Die-Forging Equipment	
1. Basic trends in the modernization of die-forging equipment (V. B. Gordin, Candidate of Technical Sciences)	5
2. The requirements for die-forging equipment (A. P. Ivanov, Candidate of Technical Sciences)	5
	8
Ch. II. Modernization of Forging and Die-Forging Steam Hammers	18
1. Hammers and their role in modern die-forging equipment (Z. M. Ginzburg, Engineer)	18
2. The modernization of steam-distributing devices of hammers (A. L. Ashkinazi, Candidate of Technical Sciences, and I. I. Kozhinskiy, Engineer)	18
3. Modernization of hammer control and drive (A. L. Ashkinazi, Z. I. Ginzburg, and K. K. Yekimov, Engineer)	19
4. Modernization and repair of foundations and anvil blocks of hammers (Yu. V. Belyayev, Candidate of Technical Sciences, Z. M. Ginzburg, and I. I. Kozhinskiy)	26
	31

Card 3/8

Modernization of Die-Forging Equipment	SOV/5658
5. Modernization and repair of hammer frames and guides (V. A. Zhivchikov, Engineer, and I. I. Kozhinskiy)	38
6. Modernization and repair of hammer cylinders and piston rods (Z. M. Ginzburg, V. A. Zhivchikov, I. I. Kozhinskiy, A. M. Kaznacheyev, and M. V. Tilinsky)	41
7. Modernization and repair of rams (I. I. Kozhinskiy)	50
8. Lubrication of hammers (I. A. Gorbunov, I. I. Kozhinskiy, and A. I. Kaznacheyev)	53
Ch. III. Modernization of Steam-Hydraulic and Hydraulic Presses	56
1. Modern trends and the outlook for modernization of hydraulic presses (A. L. Ashkinazi and V. B. Gordin)	56
2. The ways for decreasing the weight and overall dimensions of hydraulic presses (Yu. P. Kyz'ko, Engineer)	58
3. Modernization of steam-hydraulic "United" 2,000-ton forging press (B. P. Vasil'yev and V. A. Yelezov, Engineers)	63
4. Automation of steam-hydraulic "United" presses (S. P. Moiseyev, Engineer)	71

Card 4/8

Modernization of Die-Forging Equipment	SOV/5658
Ch. IV. Modernization of Mechanical Crankshaft Presses	78
1. Basic methods for the complete modernization of crankshaft presses (M. A. Goncharenko, Engineer, and V. D. Lisitsyn, Candidate of Technical Sciences)	78
2. Modernization of the drives of mechanical presses (A. P. Ivanov and V. B. Gordin, Candidates of Technical Sciences)	87
3. Modernization of engaging and disengaging mechanisms of crankshaft presses (V. A. Zhivchikov, A. M. Kaznacheyev, and V. D. Lisitsyn)	89
4. Modernization of control system of mechanical presses (V. D. Lisitsyn)	100
5. Modernization and repair of individual subassemblies and parts of mechanical presses (I. I. Kozhinskiy, and V. D. Lisitsyn)	108
6. Modernization of mechanical presses for the purpose of protecting them against overloading (Yu. M. Buzikov, Engineer)	115
7. Safety technique in the modernization of mechanical presses (V. D. Lisitsyn)	129

Card 5/8

Modernization of Die-Forging Equipment	SOV/5658
Ch. V. Modernization of Horizontal-Forging Machines [Upsetters], Percussion Presses, and Shears	133
1. Modernization of horizontal-forging machines (V. A. Zhivchikov and I. I. Kozhinskiy)	133
2. Modernization of power-screw percussion presses ( I. I. Kozhinskiy, and A. M. Kaznacheyev)	141
3. Modernization of eccentric shears for blanking operations (I. I. Kozhinskiy and V. N. Cherkasov, Engineer)	144
Ch. VI. Mechanization of Forging and Hot Die-Forging Operations in the Modernization of Hammers and Hydraulic Presses	149
1. Mechanisms and equipment for forging and die forging on hammers (K. K. Yekimov, Engineer)	149
2. Mechanisms and equipment for press-forging (K. K. Yekimov, and S. P. Moiseyev)	155
Ch. VII. Mechanization and Automation of Stamping Operations in The Modernization of Crankshaft Presses	160

Card 6/8

## Modernization of Die-Forging Equipment

SOV/5658

- |  |  |     |
|--|--|-----|
| 1.   | Trends in application of mechanizing and automatizing devices in the modernization of presses (V. D. Lisitsyn and M. A. Goncharenko)               |     |
| 2.   | Mechanical devices for feeding band and strip stock (M. A. Gutnik, Engineer, V. D. Lisitsyn, and Ye. S. Nazarenko, Engineer)                       | 160 |
| 3.   | Mechanical devices for feeding piece-blanks (V. D. Lisitsyn, and Ye. S. Nazarenko)   | 163 |
| 4.   | Fully automated [production] lines (E. E. Roytershteyn, Engineer)  | 177 |
|  |  | 186 |
| <b>Ch. VIII. Experimental Investigation of Die-Forging Equipment</b> |  |     |
| 1.   | General sequence for the calculation and design of machines in the modernization of die-forging equipment (A. P. Ivanov)                           | 191 |
| 2.   | Basic problems of the drive-system dynamics and of the automatic feed of stock in the modernization of presses (A. P. Ivanov and Ye. S. Nazarenko) | 191 |
|  |  | 193 |

Card 7/8

Modernization of Die-Forging Equipment	SOV/5658
3. Methods and means for the experimental investigation of die-forging equipment (V. I. Zaytsev and M. P. Pavlov, Candidates of Technical Sciences)	203
Bibliography	223
AVAILABLE: Library of Congress	
Card 8/8	VK/wrc/ec 11-7-61

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L. J. Urbanek

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March 1959 Unclass.

Z/040/61/000/002/004/005  
A205/A126

AUTHOR: Kyzlink, Ladislav, Engineer

TITLE: What will be the development of air transportation until the year  
2000

PERIODICAL: Letecky obzor, no. 2, 1961, 59 - 61

TEXT: It would be quite impossible, according to the author, to draw any indicative conclusions as to the future development of air transportation, if predictions were based on developmental trends up to the present time. The problem should be approached with a view to technical limitations rather than seeking to establish a state of maximum development. The author states that it is, therefore, quite impossible to foresee the technical performance capabilities of future transports and he goes on to describe a number of performance characteristics of supersonic aircraft, the development of propulsion permitting vertical take-off, and the economic aspects of future air transportation. He believes that the transport aircraft of the future will be remote-controlled and that the development of their capabilities will depend on the actual transportation requirements rather than the limitations of technical design capabilities. An in-

Card 1/2